Table 1 Hospitalized patients with acute respiratory diseases from 2021 to 2023

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Age | 2021 (n = 4721) | 2022 (n = 5227) | 2023(n = 9732) | χ2 value | P value |
| 0-1y | 2045(43.32) | 1413(27.03) | 2684(27.58) | 424.57 | <0.001 |
| 1-3y | 1409(29.85) | 1305(24.97) | 2391(24.57) | 762.11 | <0.001 |
| 3-7y | 1117(23.67) | 1809(34.61) | 3140(32.26) | 158.21 | <0.001 |
| 7-18y | 150(3.18) | 700(13.39) | 1517(15.59) | 475.26 | <0.001 |
| Gender |  |  |  |  |  |
| Male | 3002(63.59) | 3173(60.70) | 5951(61.15) | 10.50 | 0.005 |
| Female | 1719(36.41) | 2054(39.30) | 3781(38.85) |
| Total |  |  |  |  |  |
| Male | 12126(61.62%) | | | / | / |
| Female | 7554(38.38%) | | |

Table 2 RV infection rate among inpatients with ARTIs in different age groups from 2021 to 2023

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Age | 2021 | 2022 | 2023 | χ2 value | p value |
| 0-1y | 455/2045(22.25) | 474/1413(33.55) | 603/2684(22.47) | 72.57 | <0.001 |
| 1-3y | 367/1409(26.05) | 237/1305(18.16) | 496/2391(20.74) | 26.64 | <0.001 |
| 3-7y | 292/1117(26.14) | 387/1809(21.39) | 613/3140(19.52) | 21.55 | <0.001 |
| 7-18y | 36/150(24) | 80/700(11.43) | 202/1517(13.32) | 16.84 | <0.001 |
| Total | 1150/4721(24.36) | 1178/5227(22.54) | 1914/9732(19.67) | 45.45 | <0.001 |
| Gender | | | | | |
| Male | 751(65.30) | 770(65.37) | 1238(64.68) | 0.20 | 0.91 |
| Female | 399(34.70) | 408(34.63) | 676(35.32) |

Table 3 Age composition of children infected with RV from 2021 to 2023

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Age | 2021(n = 1150) | 2022(n = 1178) | 2023(n = 1914) | χ2 value | p value |
| 0-1y | 455 (39.57) | 474 (40.24) | 603 (31.50) | 32.24 | <0.001 |
| 1-3y | 367 (31.91) | 237 (20.12) | 496 (25.91) | 42.15 | <0.001 |
| 3-7y | 292 (25.39) | 387(32.85) | 613 (32.03) | 19.35 | <0.001 |
| 7-18y | 36 (3.13) | 80(6.80) | 202 (10.55) | 58.26 | <0.001 |
| Total | | | | | |
| 0-1y | 1153(36.12) | | | | |
| 1-3y | 1100(25.93) | | | | |
| 3-7y | 1292(30.46) | | | | |
| 7-18y | 318(7.50) | | | | |

Table 4 The clinical characteristics of patients with different disease severity

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Severe LRTI (n = 7)** | **Non-severe LRTI (n = 25)** | ***p*-value** |
| Age, Month | 15.29±14.67 | 22±29.71 | 0.305 |
| Male/female | 6/1 | 14/11 | 0.212 |
| Hospital stays, days | 7.57±2.64 | 5.84±1.43 | 0.09 |
| Cough | 6 | 24 | 0.398 |
| Fever | 5 | 12 | 0.402 |
| Nasal congestion | 0 | 0 | - |
| Cough up phlegm | 2 | 12 | 0.426 |
| Wheeze | 2 | 5 | 0.632 |
| Sneeze | 0 | 0 | - |
| Respiratory failure | 0 | 0 | - |
| Tachypnea | 2 | 3 | 0.296 |
| asthma | 4 | 4 | 0.047 |